

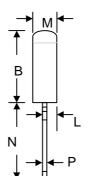
GBU8A - GBU8K

8.0A GLASS PASSIVATED BRIDGE RECTIFIER

Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards

C T H K



GBU						
Dim	Min	Max				
Α	21.80	22.30				
В	18.30	18.80				
С	7.40	7.90				
D	3.50	4.10				
Е	1.52	2.03				
G	2.16	2.54				
H	4.83	5.33				
J	1.65	2.16				
K	1.65	2.03				
L	0.76	1.02				
М	3.30	3.56				
N	17.50	18.00				
Р	0.46	0.56				
All Dimensions in mm						

Mechanical Data

Case: Molded Plastic

 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: As Marked on Body Weight: 4.0 grams (approx.) Mounting Position: Any

Marking: Type Number

Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	GBU8A	GBU8B	GBU8D	GBU8G	GBU8J	GBU8K	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	٧
Average Rectified Output Current $@T_C = 100^{\circ}C$ $@T_A = 45^{\circ}C$	lo	8.0 6.0					Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	200					Α	
I ² t Rating for Fusing (t < 8.35ms)	l²t	166					A ² s	
Forward Voltage (per element) @I _F = 8.0A	VFM			1	.0			V
	IR	5.0 500			μΑ			
Typical Thermal Resistance (per leg) (Note 1)	R heta JA	18.0				K/W		
Typical Thermal Resistance (per leg) (Note 2)	R_{θ} JC	3.0				K/W		
Operating and Storage Temperature Range	Тj, Tsтg	-55 to +150					°C	

Note: 1. Thermal resistance junction to ambient, mounted on PCB at 9.5mm lead length with 12mm² copper pads.

2. Thermal resistance junction to case, mounted on 7.5 x 7.5 x 0.3cm thick AL plate.

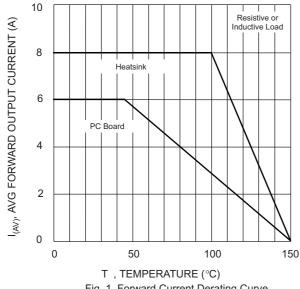
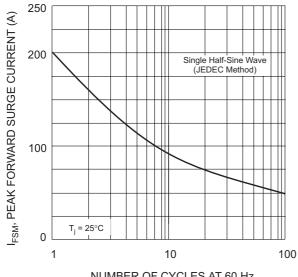
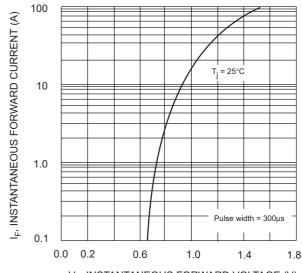


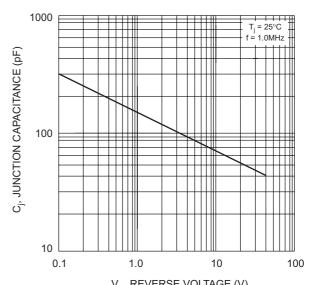
Fig. 1 Forward Current Derating Curve



NUMBER OF CYCLES AT 60 Hz Fig. 3 Maximum Non-Repetitive Surge Current



 V_{F} , INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 2 Typical Forward Characteristics, per element



 V_R , REVERSE VOLTAGE (V) Fig. 4 Typical Junction Capacitance

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity			
GBU8A	SIL Bridge	25 Units/Tube			
GBU8B	SIL Bridge	25 Units/Tube			
GBU8D	SIL Bridge	25 Units/Tube			
GBU8G	SIL Bridge	25 Units/Tube			
GBU8J	SIL Bridge	25 Units/Tube			
GBU8K	SIL Bridge	25 Units/Tube			

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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